

ABSTRACT OF THE DISCLOSURE

A method and system of TMAH concentration adjustment. Absorption values A_1 , Y_1 to Y_m of a recycled developer solution at wavelength 210 nm and m wavelengths
5 between 220 nm and 250 nm are measured respectively, wherein m is equal to or greater than 2. Y_1 to Y_m are input to an n th-degree polynomial to generate a wavelength-absorption relationship $Y=C_1X^n+\dots+C_{n-1}X+C_n$, wherein X is wavelength, n is a positive integer and C_1 to
10 C_n are coefficients of the relationship. Wavelength 210 nm is input into the wavelength-absorption relationship to generate an absorption value Y_{210} . A difference A_3 between the A_1 and Y_{210} is calculated as the absorption value of TMAH in the developer solution and A_3 is then
15 input to an absorption calibration curve of TMAH at 210 nm to generate a corresponding TMAH concentration. TMAH is then added to provide the corresponding TMAH concentration.